

Safety Data Sheet

Revision Date 12/15/15

1. PRODUCT AND COMPANY IDENTIFACTION

Product name Ammonium dichromate

CAS#

07789-09-5

Manufacturer

Sentury Reagents, Inc. 2515 Commerce Dr. Rock Hill, SC 29730

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Telephone Fax 803-327-6880 803-327-3872

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Emergency Phone # and Account PERS 800-633-8253 or outside the United States 011-801-629-0667 10613

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazardous

Oxidizer, Highly toxic by inhalation, Toxic by ingestion, Harmful by skin absorption, Skin and respiratory sensitizer, Corrosive, Carcinogen, teratogen, Reproductive hazard, Mutagen

Target Organs

Lungs, Kidney, Liver

GHS Classification

Oxidizing solids (Category 2) Acute toxicity, Oral (Category 3)

Acute toxicity, Inhalation (Category 2) Acute toxicity, Dermal (Category 4)

Skin corrosion (Category 1B) Serious eye damage (Category 1)

Respiratory sensitization (Category 1)

Skin sensitization (Category 1)

Germ cell mutagenicity (Category 1B)

Carcinogenicity (Category 1B)
Reproductive toxicity (Category 1B)

Specific target organ toxicity - repeated exposure (Category 1)

Acute aquatic toxicity (Category 1)

Chronic aquatic toxicity \Category 1)

GH3 Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H272

May intensify fire; oxidizer. Toxic if swallowed.

H301

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Page 1 of 6

H312	Harmful in conta	act with skin		
H314	Causes severe skin bums and eye damage.			
H317	May cause an allergic skin reaction.			
H330	Fatal if inhaled	morgio siair rodolori.		
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.			
H340	May cause genetic defects.			
H350	May cause cancer.			
H360FD	May damage fertility or the unborn child.			
H372	Causes damage to organs through prolonged or repeated exposure.			
H410	Very toxic to aquatic life with long lasting effects.			
		•		
Precautionary statement(s		netructions before use		
P201	Obtain special instructions before use.			
P220	Keep/Store away from clothing/ combustible materials.			
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.			
P273	Avoid release to the environment.			
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection			
P284	Wear respiratory protection.			
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if			
		sy to do. Continue rinsing.		
P310	Immediately call a POISON CENTER or doctor/ physician.			
P501	Dispose of contents/ container to an approved waste disposal plant.			
IMIS Classification		NFPA Rating		
Health hazard:	3	Health hazard:	4	
Chronic Health Hazard:		Fire:	0	
Flammability:	0	Reactivity Hazard:	2	
	2			

Physical hazards: Personal Protection Potential Health Effects

Inhalation May be fatal if inhaled. Material is extremely destructive to the tissue of the mucous

Special hazard:

OX

97% MIN

membranes and upper respiratory tract.

Skin Causes skin burns.
Eyes Causes eye burns.
Indestion Toxic if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms Ammonium bichromate Formula H8Cr2N207

Molecular Weight 252.06 g/mol

1232-143-1

CAS-No. EC-No. Index-No. Concentration

Ammonium dichromate

024-003-00-1

7789-09-5 4. FIRST AID MEASURES

General advice

Consult a physician. Show his safety data sheet to the doctor in attendance. Move out of dangerous area,

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Sentury Reagents, Inc. Page 2 of 6

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for firefighting if necessary

Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - nitrogen oxides (NOx), Chromium oxides

Further information

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. Keep away from heat and sources of ignition. Normal measures for preventive fire protection

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Do not grind or subject to friction or shock, Isolated storage

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

Where risk assessment show air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering control. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form Crystalline Colour no data available

Safety data

3.0- 4.0 at 50 g/l 25°C(77 °F) Melting Melting point/range: 170 oc (338 °F) - dec.

point/freezing point **Boiling** point

no data available

Flash point not applicable

Ignition temperature no data available

Autoignition temperature no data available

Lower explosion limit

no data available

Upper explosion limit

no data available

Vapour pressure

no data available

Density

2.150 g/cm3

Water solubility Partition coefficient: no data available no data available

n-octanol/water

Relative vapour no data available

density Odour

no data available

Odour Threshold Evaporation rate

no data available no data available

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

no data available

Conditions to avoid

no data available

Materials to avoid

Strong reducing agents, Alcohols, Strong acids, Do not store near acids.

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - nitrogen oxides (NOx), Chromium oxides Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD5

LD50 Oral - rat - 53 mg/kg

Inhalation LC50

LC50 Inhalation - rat - 4 h - 160 ppm

Dermal LD5O

Other information on acute toxicity

no data available

Skin corrosion/irritation

data available

Serious eye damage/eye irritation

Eves- rabbit - Severe eye irritation- Draize Test

Respiratory or skin sensitization

May cause allergic respiratory and skin reactions

Germ cell mutagenicity

May alter genetic material. ;n vivo tests showed mutagenic effects

Carcinogenicity

IARC:

NTP:

This is or contains a component that has been reported to be carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification. Possible human carcinogen

No component of this product present at levels greater than or equal to 0.1% is identified as probable,

possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or

potential carcinogen by ACGIH.

No component of this product present at levels greater than or equal to J.1% is identified as a known, or

anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

May cause reproductive disorders.

Teratogenicity

May cause congenital malformation in the fetus. Presumed human reproductive toxicant

Specific target organ toxicity ·single exposure (Globally Harmonized System)

Specific target organ toxicity repeated exposure (Globally Harmonized System)

Causes damage to organs through prolonged or repeated exposure.

Asniration hazard

no data available

Potential health effects

Inhalation

May be fatal if inhaled. Material is extremely destructive to the tissue of the mucous

membranes and upper respiratory tract.

Ingestion Skin

Toxic if swallowed. Causes skin burns.

Eves Causes eve burns.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects

Not available

Additional Information

RTECS: Not available

12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish

LCO- Leuciscus idus (Golden orfe)- 50 mg/1 - 48 h

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil no data available

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Page 5 of 6

PBT and vPvB assessment

no data available

Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber

EMS-No: F-H, S-Q

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 1439 Class: 5.1 Packing group: II

Proper shipping name: Ammonium dichromate

Reportable Quantity (RQ): 10 lbs

Marine pollutant: No

Poison Inhalation Hazard: No

IMDG

UN number: 1439 Class: 5.1 Packing group: II

Proper shipping name: AMMONIUM DICHROMATE

Marine pollutant: No

IATA

UN number: 1439 Class: 5.1

Packing group: II

Proper shipping name: Ammonium dichromate

15. REGULATORY INFORMATION

OSHA Hazards

Oxidizer, Highly toxic by inhalation, Toxic by ingestion, Harmful by skin absorption, Skin and respiratory sensitizer, Corrosive, Carcinogen, Teratogen, Reproductive hazard, Mutagen

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313 This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Reactivity Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

massachusetts right to rillow components		
	CAS No.	Revision Date
Ammonium dichromate	7789-09-5	1993-04-24
Pennsylvania Right To Know Components		
Ammonium dichromate	7789-09-5	1993-04-24
New Jersey Right To Know Components		
Ammonium dichromate	7789-09-5	1993-04-24
California Prop. 65 Components		

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sentury Reagents, Inc., shall not be held liable for any damage resulting from handling or from contact with the above product.

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Page 6 of 6